

Notice of Allowability	Application No.	Applicant(s)
	10/083,782	ZHU ET AL.
	Examiner	Art Unit
	Ishwar (I. B.) Patel	2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed on September 5, 2003 and interview summary.
 2. The allowed claim(s) is/are 8,10,14,17,20,27-32 and 34-41.
 3. The drawings filed on _____ are accepted by the Examiner.
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - (a) The translation of the foreign language provisional application has been received.
 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No. _____.
 - (b) including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. 1203.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <input type="checkbox"/> Notice of References Cited (PTO-892) | <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>1203</u> . |
| <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No. _____ | <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | <input type="checkbox"/> Other |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher B. Linder (Reg. No. 47,751) on December 8, 2003.

The application has been amended as follows:

Claims amended as below:

✓ Claim 8. ~~Currently Amended~~ An electronic package comprising:

a substrate; and
a free-standing compliant off-chip interconnect disposed on the substrate, wherein the free-standing compliant off-chip interconnect includes a first free-standing arcuate structure that is substantially parallel to the substrate, wherein the first free-standing arcuate structure is curved in the plane substantially parallel to the substrate. ~ ~

✓ Claim 27. ~~Amend~~ A free-standing compliant off-chip interconnect structure, comprising:

a substrate;
a first arcuate structure disposed on the substrate, wherein the first arcuate structure is curved in the plane substantially parallel to the substrate,
a second arcuate structure, wherein the first arcuate structure and the second arcuate structure are disposed in substantially parallel planes, wherein the second arcuate structure is curved in the plane substantially parallel to the substrate, and
a middle post, wherein the first arcuate structure is connected to a lower portion of the middle post, and wherein the second arcuate structure is connected to an upper portion of the middle post.

Claim 33. Cancelled.

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

Cross-hatching to be removed from the side view and top view, figures 1B-1D, 3B-3D, 5B-5D, 6B-6D and 8B-8D, instead shading may be provided.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

3. The following is an examiner's statement of reasons for allowance: An electronic package comprising a free-standing compliant off-chip interconnect disposed on a substrate, a free-standing compliant off-chip interconnect, as described and enabled by the specification, is an interconnect structure that do not need an underfill and / or flexible interposer to achieve compliance, wherein the free-standing off-chip interconnect includes a first free-standing arcuate structure that is substantially parallel to the substrates, and is curved in the plane substantially parallel to the substrate, has not been disclosed by prior art alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (571) 272 1933. The examiner can normally be reached on M-F (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272 1957. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0658.

ibp
12/9/03



EVAN PERT
PRIMARY EXAMINER